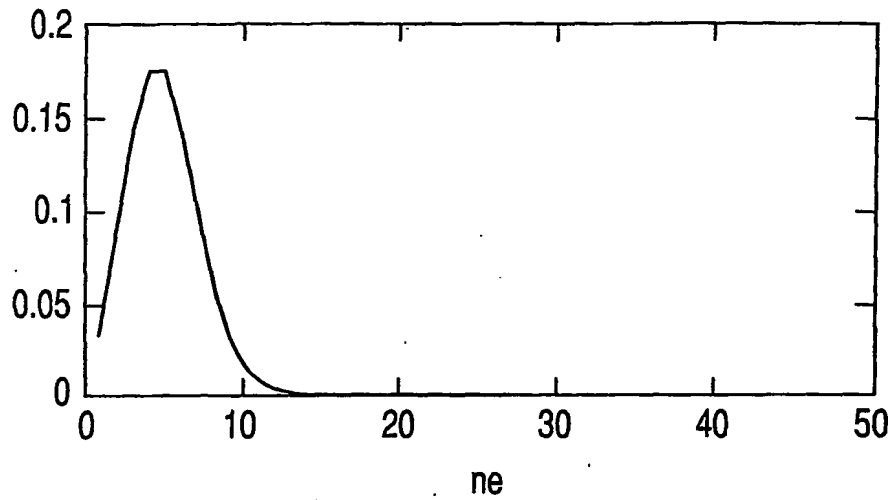


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$ns := 500$        $BER := 0.01$        $NE := ns \cdot BER$   
 $ne := 1,2..50$

dpois (ne,NE)

Fig. 1



$ne := 15$

$D := .000085$

$NE_{low} := 0.5qchisq(D, 2ne)$

$NE_{low} = 4.56$

$NE_{high} := 0.5qchisq(1 - D, 2ne)$

$NE_{high} = 34.085$

$ni := 1,2..50$

dpois (ni,NE<sub>low</sub>)

-----  
dpois (ni,NE<sub>high</sub>)

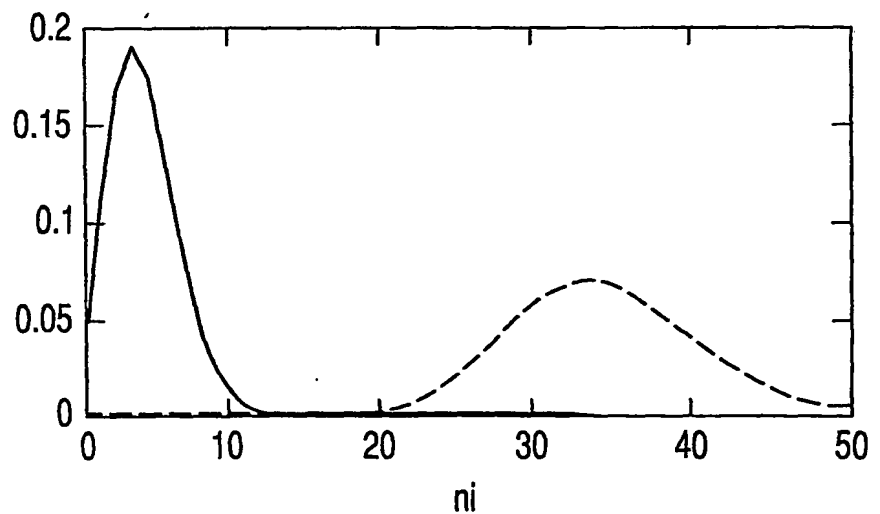


Fig. 2

$$D := 0.000085 \quad ne := 1, 2, \dots, 1000 \quad 2/5$$

$$bernornpass(ne, D) := \frac{2ne}{qchisq(1 - D, 2 \cdot ne)}$$

$$bernornfail(ne, D) := \frac{2ne}{qchisq(D, 2ne)}$$

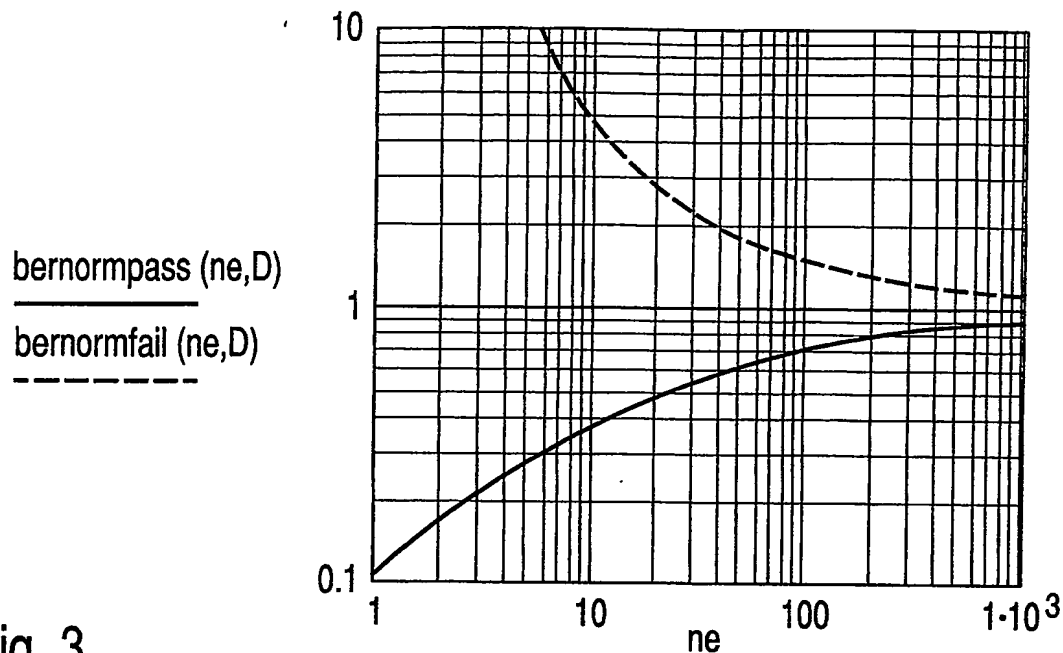


Fig. 3

$$M := 1.5 \quad D := 0.000085 \quad ne := 1, 2, \dots, 1000$$

$$berlimbad_{pass}(ne, D) := 2 \cdot \frac{ne}{qchisq(1 - D, 2 \cdot ne)} \cdot M$$

$$berlim_{fail}(ne, D) := 2 \cdot \frac{ne}{qchisq(D, 2 \cdot ne)}$$

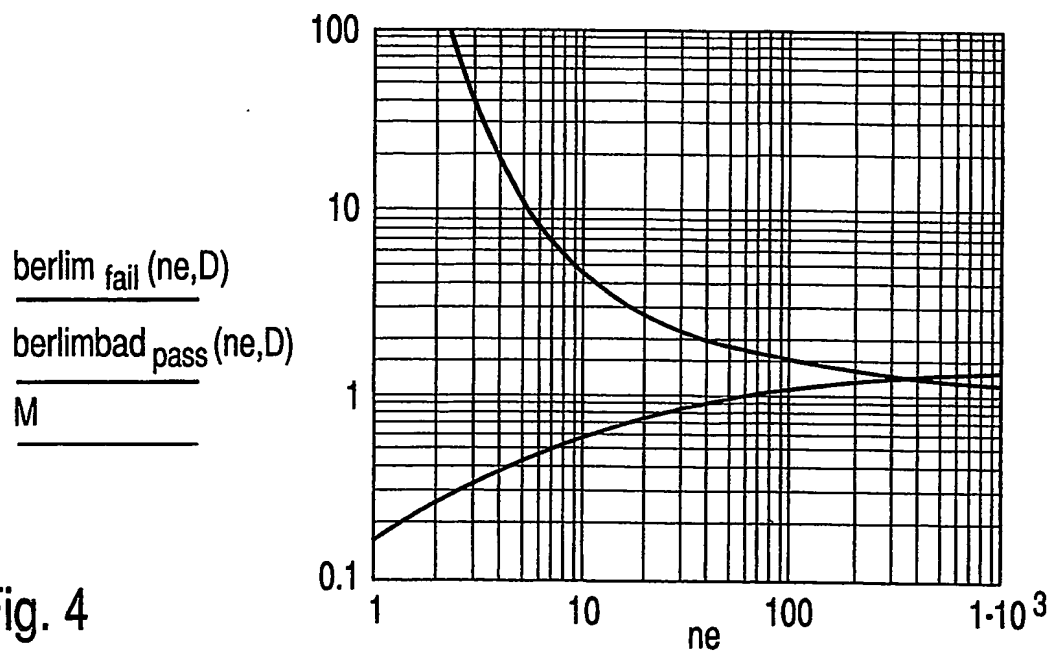


Fig. 4

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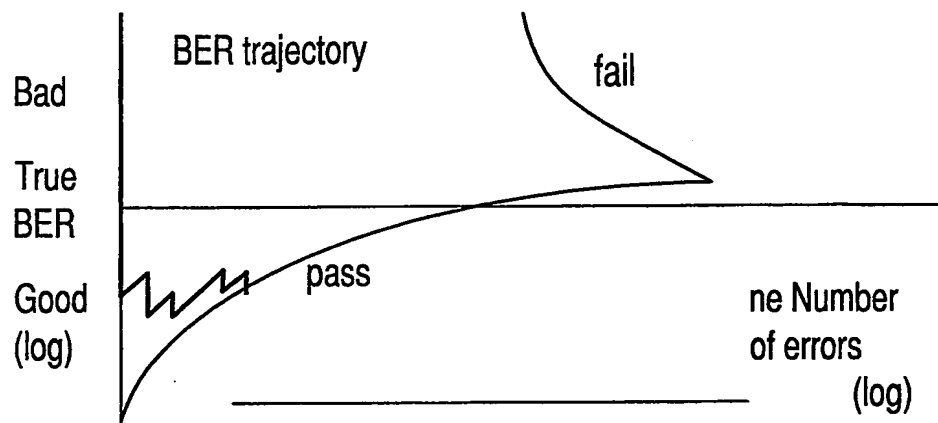


Fig. 5

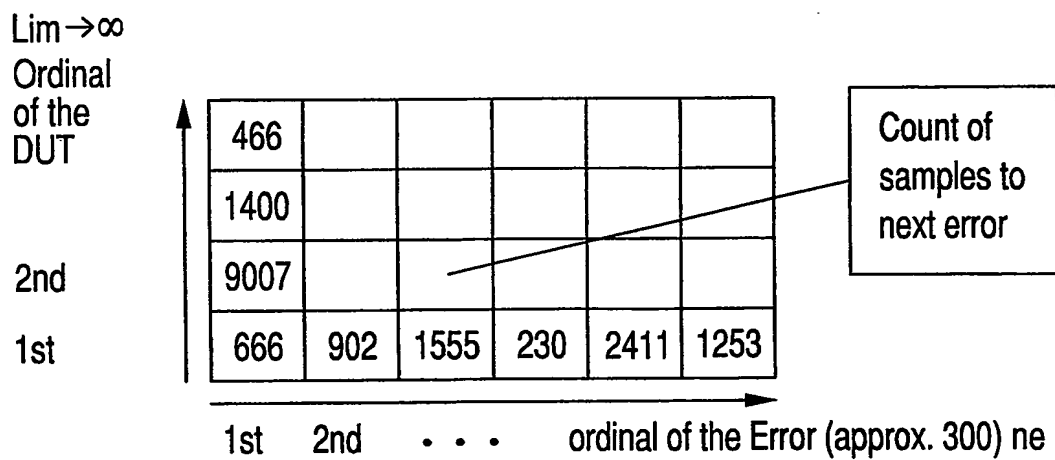


Fig. 6

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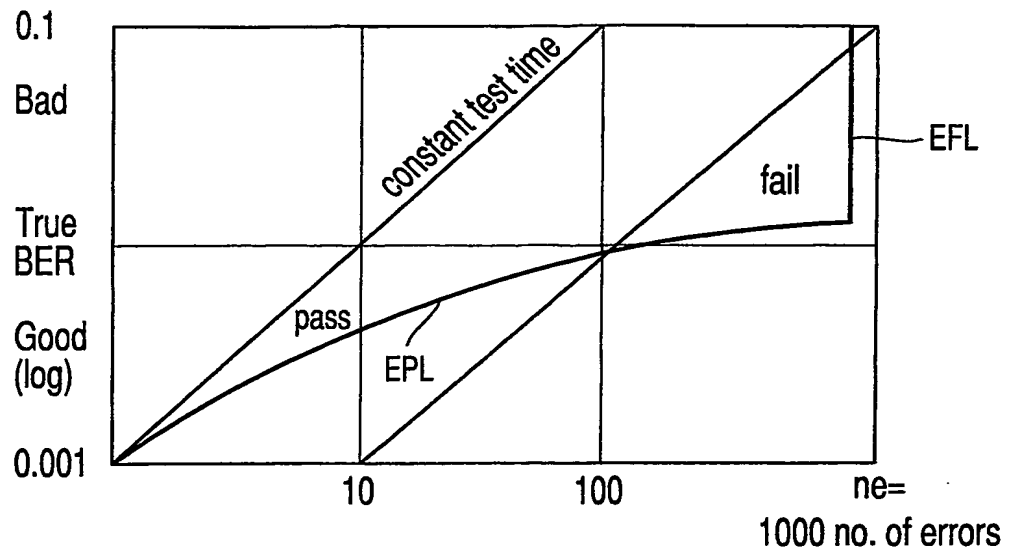


Fig. 7

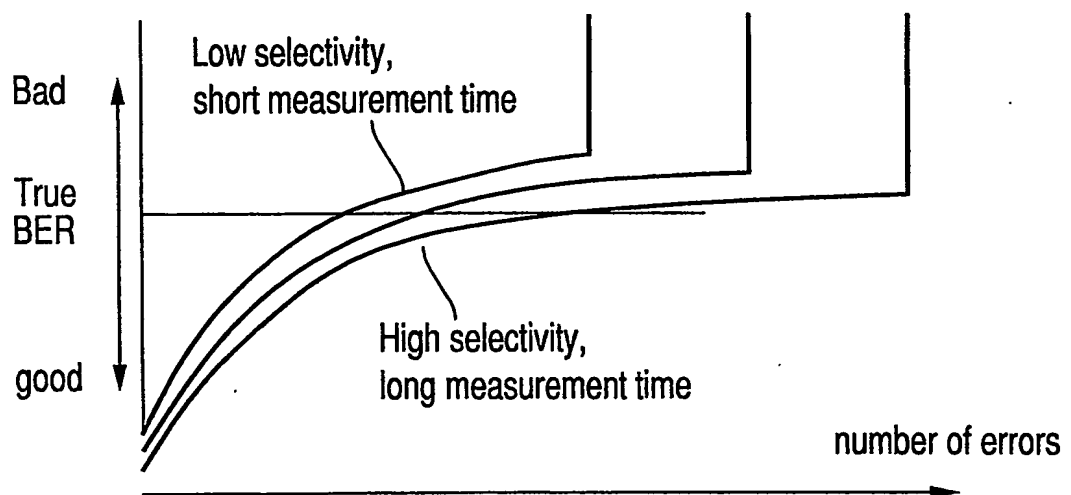


Fig. 8

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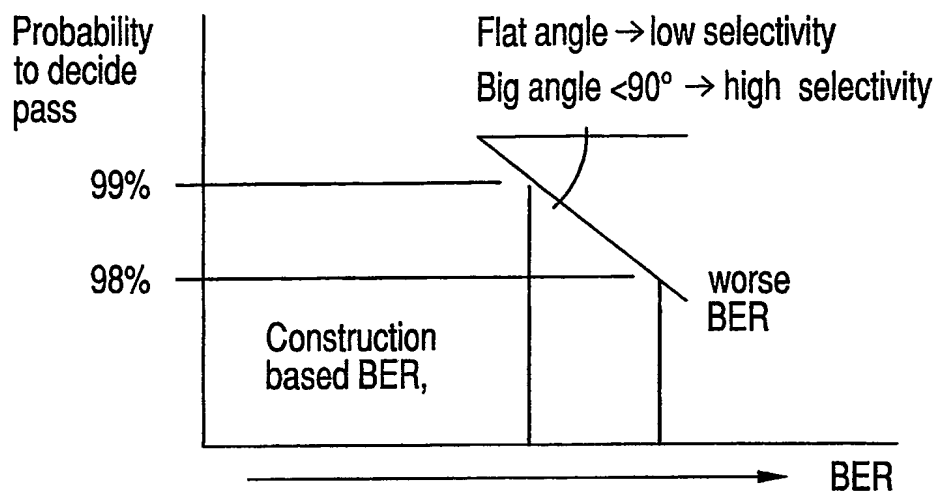


Fig. 9

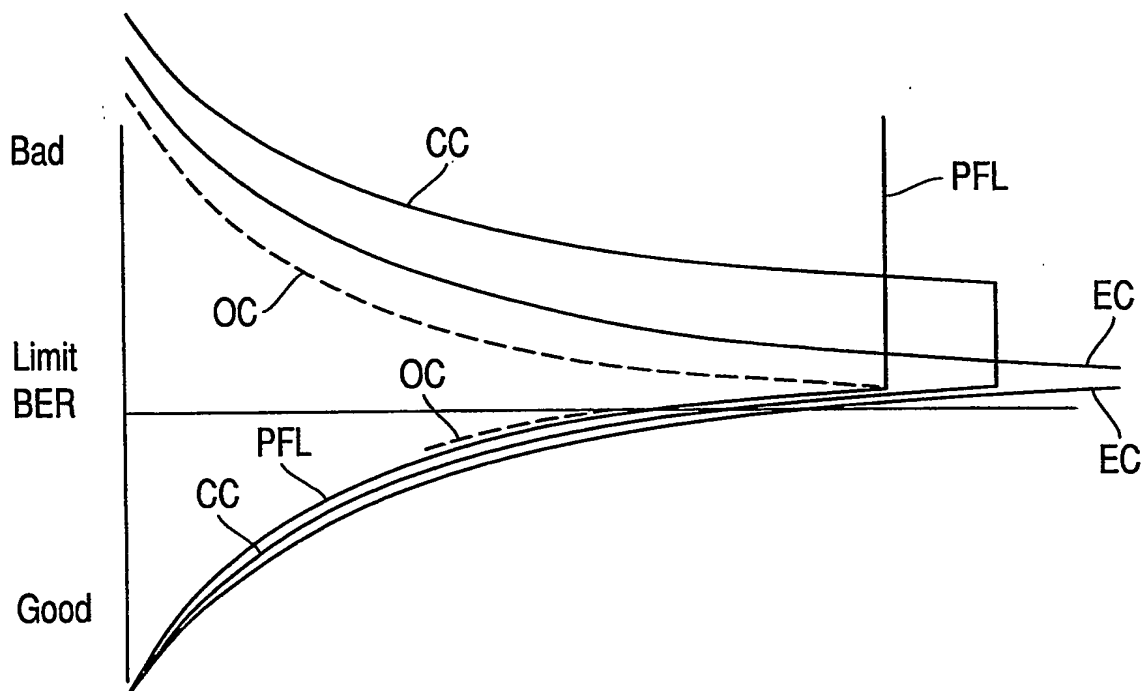


Fig. 10